

Notice of Allowability

Application No.

09/812,210

Examiner

Anthony T Ton

Applicant(s)

PITCHER ET AL.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 10/25/04.
2. ☒ The allowed claim(s) is/are 2-21,31-34,36 and 37.
3. ☒ The drawings filed on 3/19/01 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
 - * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____



PHIRIN SAM
PRIMARY EXAMINER

DETAILED ACTION

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview and Email communications with Attorney Sidney L. Weatherford (Registration No. 45,602) on 3/14/2005, the Attorney agreed to allow the Examiner does an Examiner's Amendment as follows:

a) **In Claim 11:** please replace the entire content of the **claim 11** as follows:

11. (Currently Amended) A local site communication system providing wireless communication with a mobile terminal in a local site and cooperating with a public communication system including a public service telephone network and a cellular communication network having a plurality of radio base stations covering a plurality of cells where switching of mobile terminal communication links with said public communication system is controlled by a mobile switching center, said local site communication system comprising:

a broadband connection between said local site and an internet wherein said local site is located in one of said plurality of cells covered by one of said plurality of radio base stations;

a wireless local site network in said local site for communicating data between said broadband connection and said mobile terminal when said mobile terminal is located in said local site; and

a cyber base station connected to the internet and communicating data between said broadband connection and said mobile switching center whereby said mobile terminal when located at said local site connects to said public communication system via said wireless local site network, said broadband connection, the internet and said cyber base station, wherein

said local site is located in one of said plurality of cells covered by one of said plurality of radio base stations, and wherein switching of said mobile terminal communication links of said cyber base station with said public communication system is controlled by said mobile switching center controlling switching of said mobile terminal communication links of said one of said plurality of radio base stations with said public communication system.

b) In Claim 12: please replace the entire content of the **claim 12** as follows:

12. (Currently Amended) A wireless communication system, comprising:

a plurality of cells each served by a radio base station via wireless signals;

a plurality of low power wireless local site networks located in said plurality of cells, said wireless local site networks served by a cyber base station via an internet and each said wireless local site network including a low power transceiver for communicating with mobile terminals; and

a mobile switching center controlling said cyber base station and said radio base stations, wherein

said wireless local site networks are located in said plurality of cells covered by said radio base stations, and wherein switching of mobile terminal communication links of said cyber base station with a public communication system is accomplished by said mobile switching center controlling switching of said mobile terminal communication links of said radio base station with said public communication system.

c) **In Claim 34:** please replace the entire content of the **claim 34** as follows:

34. (Currently Amended) A method of placing a call to a phone via a mobile switching center from a mobile terminal served by a cybercell, comprising:

transmitting a call origination message from said mobile terminal to a wireless local site network serving said cybercell, wherein said wireless local site network is connected to an internet by a broadband connection;

transmitting an internet protocol message with said origination message from the wireless local site network via said broadband connection over the internet to an internet protocol address at a cyber base station providing an interface to said mobile switching center;

paging the called phone; and

establishing a voice path from said mobile terminal to said mobile switching center via said wireless local site network, the internet and said cyber base station.

d) **In Claim 35:** please cancel the **claim 35**.

Allowable Subject Matter

2. The following is an examiner's statement of reasons for allowance:

a) **In Regarding to Claims 2-11:** The prior arts of record fail to teach a local site communication system providing wireless communication with a mobile terminal in a local site and cooperating with a public communication system including a public service telephone network and a cellular communication network having a plurality of radio base stations covering a plurality of cells where switching of mobile terminal communication links with said public communication system is controlled by a mobile switching center, the local site communication system comprising a combination of steps of:

a cyber base station connected to an internet and communicating data between a broadband connection and the mobile switching center whereby the mobile terminal when located at the local site connects to the public communication system via the wireless local site network, the broadband connection, the internet and the cyber base station, and

wherein the local site is located in one of the plurality of cells covered by one of the radio base stations, and wherein switching of the mobile terminal communication links of the cyber base station with the public communication system is controlled by the mobile switching center controlling switching of the mobile terminal communication links of the one radio base station with the public communication system.

b) **In Regarding to Claims 12-21:** The prior arts of record fail to teach a wireless communication system, the wireless communication system comprising a combination of steps of:

a plurality of low power wireless local site networks located in a plurality of cells, the wireless local site networks served by a cyber base station via an internet and each the wireless local site network including a low power transceiver for communicating with mobile terminals;

a mobile switching center controlling the cyber base station and radio base stations,
wherein

the wireless local site networks are located in the plurality of cells covered by the radio base stations, and wherein switching of mobile terminal communication links of said cyber base station with a public communication system is accomplished by said mobile switching center controlling switching of said mobile terminal communication links of said radio base station with said public communication system.

c) In Regarding to Claims 31-33: The prior arts of record fail to teach a method of placing a call via a mobile switching center to a mobile terminal registered in a location area having a plurality of cells and a cybercell, the method comprising a combination of steps of:

transmitting an internet message with a page message by a cyber base station;

transmitting a low power wireless signal with the page message by a low power wireless local site network serving the cybercell; and

responding from the mobile terminal to a radio base station serving the cell providing service to the mobile terminal, where when the mobile terminal is being provided service by a wireless local site network serving a cybercell, the mobile terminal response is sent to the cyber base station as an internet protocol response message via an internet.

d) In Regarding to Claims 34, 36 and 37: The prior arts of record fail to teach a method of placing a call via a mobile switching center from a mobile terminal served by a cybercell, the method comprising a combination of steps of:

transmitting an internet protocol message with a call origination message from a wireless local site network via a broadband connection over an internet to an internet protocol address at a cyber base station providing an interface to the mobile switching center;

paging the called phone; and

establishing a voice path from the mobile terminal to the mobile switching center via the wireless local site network, the internet and the cyber base station.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance".

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Anthony T Ton** whose telephone number is **571-272-3076**. The examiner can normally be reached on M-F: 9:00 am - 5:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Chau Nguyen** can be reached on **571-272-3126**. The fax phone number for the organization where this application or proceeding is assigned is **703-872-9306**.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Respectfully submitted,

by: qth
Anthony T. Ton
Patent Examiner
March 14, 2005


PHIRIN SAM
PRIMARY EXAMINER